

		1	6	25
HSP 65 - <u>M.T.</u>	-----	-----	MAKTI	AYDEEARRGL ERGLNALADA
HSP 60 - <u>RAT</u>	MLRLPTVLRQ	MRPVSRLAP	HLTRAYAKDV	KFGADARALM LQGVDLLADA
HSP 60 - <u>HUMAN</u>	MLRLPTVFRQ	MRPVSRLAP	HLTRAYAKDV	KFGADARALM LQGVDLLADA
Consensus	-----	-----	AK--	AR---G---LADA

	26		75
HSP 65 - <u>M.T.</u>	VKVTLGPKGR	NVVLEKKWGA	PTITNDGVSI AKEIELEDPY EKIGAELVKE
HSP 60 - <u>RAT</u>	VAVTMGPKGR	TVLIEQSWGS	PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD
HSP 60 - <u>HUMAN</u>	VAVTMGPKGR	TVLIEQSWGS	PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD
Consensus	V-VT-GPKGR	-V--E--WG-	P--T-DGV-- AK-I-L-D-Y --IGA-LV--

6-7(31-52 AA)

	76		125
HSP 65 - <u>M.T.</u>	VAKKTDDVAG	DGTTTATVLA	QALVREGLRN VAAGANPLGL KRGIEKAVEK
HSP 60 - <u>RAT</u>	VANNTNEEAG	DGTTTATVLA	RSIAKEGFEX ISKGANPVEI RRGVMLAVDA
HSP 60 - <u>HUMAN</u>	VANNTNEEAG	DGTTTATVLA	RSIAKEGFEX ISKGANPVEI RRGVMLAVDA
Consensus	VA--T---AG	DGTTTATVLA	-----EG--- ---GANP--- -RG---AV--

21 (121-136 AA)

	126		174
HSP 65 - <u>M.T.</u>	VTETLLKGAK	EVETKEQIAA	TAAISA.GDQ SIGDLIAEAM DKVGNIEGVIT
HSP 60 - <u>RAT</u>	VIAELKKQSK	PVTTPPEEIAQ	VATISANGDK DIGNIISDAM KKVGRKGVT
HSP 60 - <u>HUMAN</u>	VIAELKKQSK	PVTTPPEEIAQ	VATISANGDK EIGNIISDAM KKVGRKGVT
Consensus	V---L-K--K	-V-T-E-IA-	-A-ISA-GD- -IG--I--AM -KVG--GVIT

	175		224
HSP 65 - <u>M.T.</u>	VEESNTFGLQ	LELTGEMRFD	RGYISGYFVT DPERQEAVLE DPFYLLVSSK
HSP 60 - <u>RAT</u>	VKDGTKLNDE	LELTGEMRFD	RGYISPYFIN TSKGQKCEFO DAYVLLSEKK
HSP 60 - <u>HUMAN</u>	VKDGTKLNDE	LELTGEMRFD	RGYISPYFIN TSKGQKCEFO DAYVLLSEKK
Consensus	V----T----	LE--EGM-FD	-GYIS-YF-- ----Q----- D-Y-LL----K

31 (181-196 AA)

36 (211-226 AA)

	225		274
HSP 65 - <u>M.T.</u>	VSTVKDLLPL	LEKVGAGKP	LLIIAEDVEG EALSTLVVNK IRGTFKSVAV
HSP 60 - <u>RAT</u>	ISSVQSIVPA	LEIANAHKRP	LVIIAEDVDG EALSTLVNLR LKVGQLQVAV
HSP 60 - <u>HUMAN</u>	ISSIQSIVPA	LEIANAHKRP	LVIIAEDVDG EALSTLVNLR LKVGQLQVAV
Consensus	-S-----P-	LE-----KP	L-IIAEDV-G EALSTLV-N- -----VAV

40 (236-251 AA)

45 (265-280 AA)

Fig. 1

	275.	323
HSP 65 - <u>M.T.</u>	<u>KAPGFGDRRK</u> AMLQDMAILT GGQVISEE.V GLTLENADLS LLGKARKVVV	
HSP 60 - <u>RAT</u>	<u>KAPGFGDNRK</u> NQLKDMAIAT GGAVFGEEGL NLNLEDVQAH DLGKVGEVIV	
HSP 60 - <u>HUMAN</u>	<u>KAPGFGDNRK</u> NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGEVIV	
Consensus	<u>KAPGFGD-RK</u> --L-DMAI-T GG-V--EE-- -L-LE----- -LGK---V-V	
	324	373
HSP 65 - <u>M.T.</u>	TKDETTIVEG AGDTDAIAGR VAQIRQEIEN <u>SDSDYDREKL</u> <u>QERLAKLAGG</u>	
HSP 60 - <u>RAT</u>	TKDDAMLLKG KGDKAHIEKR IQEITEQLDI <u>TTSEYEKEKL</u> <u>NERLAKLSDG</u>	
HSP 60 - <u>HUMAN</u>	TKDDAMLLKG KGDKAQIEKR IQEIEQLDV <u>TTSEYEKEKL</u> <u>NERLAKLSDG</u>	
Consensus	TKD-----G -GD---I--R ---I----- --S-Y--EKL -ERLAKL--G	
		59 (349-364 AA)
	374	423
HSP 65 - <u>M.T.</u>	<u>VAVIKAGAAT</u> <u>EVELKERKHR</u> IEDAVRNAKA AVEEGIVAGG GVTLLQAAPT	
HSP 60 - <u>RAT</u>	<u>VAVLKVGGS</u> <u>DVEVNEKKDR</u> VTDALNATRA AVEEGIVLGG GCALLRCIPA	
HSP 60 - <u>HUMAN</u>	<u>VAVLKVGGS</u> <u>DVEVNEKKDR</u> VTDALNATRA AVEEGIVLGG GCALLRCIPA	
Consensus	<u>VAV-K-G---</u> <u>-VE--E-K-R</u> --DA-----A AVEEGIV-GG G--LL---P-	
		63 (373-388 AA)
	424	472
HSP 65 - <u>M.T.</u>	LDELK.LEGD EATGANIVKV ALEAPLKQIA FNSGLEPGVV AEKVRNLPAG	
HSP 60 - <u>RAT</u>	LDSLKPANED QKIGIETIKR ALKIPAMTIA KNAGVEGSLI VEKILQSSSE	
HSP 60 - <u>HUMAN</u>	LDSLTPANED QKIGIETIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE	
Consensus	LD-L-----D ---G--I-K- -L--P---IA -N-G-E---- -EK-----	
	473	522
HSP 65 - <u>M.T.</u>	HGLNAQTGVY EDLLAAGVAD PVKVTRSALQ <u>NAASTAGLFL</u> <u>TTEAVVADKP</u>	
HSP 60 - <u>RAT</u>	VGYDAMLGDF VNMVEKGIID PTKVVRTALL <u>DAAGVAPLLT</u> <u>TAEAVVTEIP</u>	
HSP 60 - <u>HUMAN</u>	VGYDAMAGDF VNMVEKGIID PTKVVRTALL <u>DAAGVASLLT</u> <u>TAEVVVTEIP</u>	
Consensus	-G--A--G-- -----G--D P-KV-R-AL- <u>-AA--A-L--</u> <u>T-E-VV---</u> P	
		84 (499-514 AA)
	523	540
HSP 65 - <u>M.T.</u>	EKEKASVPGG GDMGGMDF-- -----	
HSP 60 - <u>RAT</u>	KEEKD..PGM GAMGGMGGGM GGGMF	
HSP 60 - <u>HUMAN</u>	KEEKD..PGM GAMGGMGGGM GGGMF	
Consensus	--EK---PG- G-MGGM-----	

Fig. 1(continued)

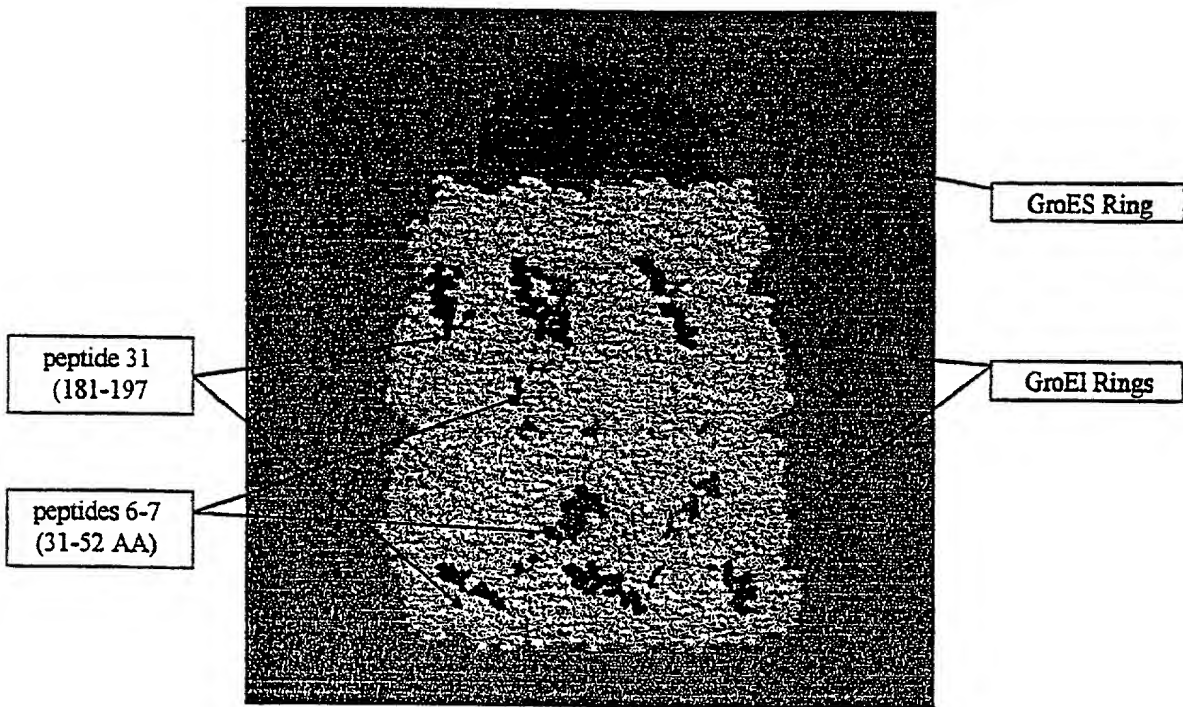


Fig. 2

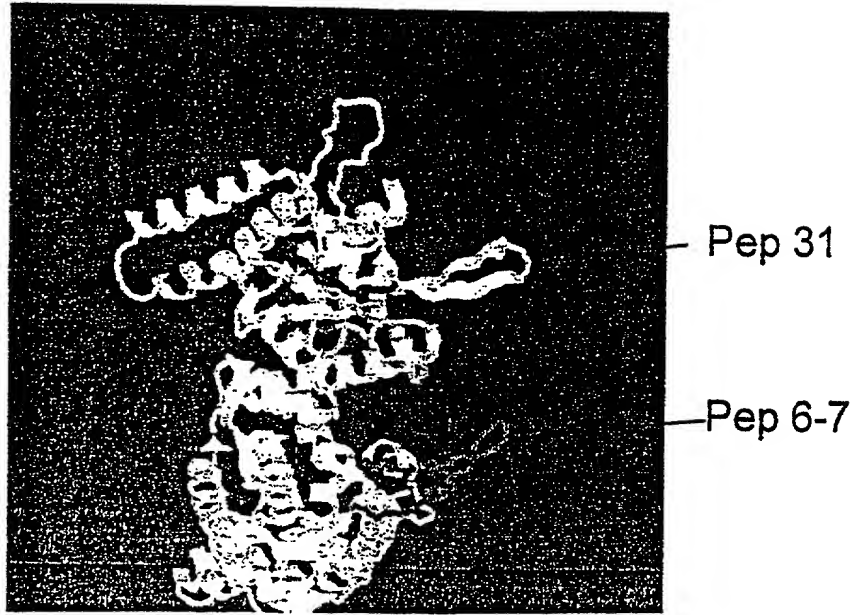


Fig. 3A

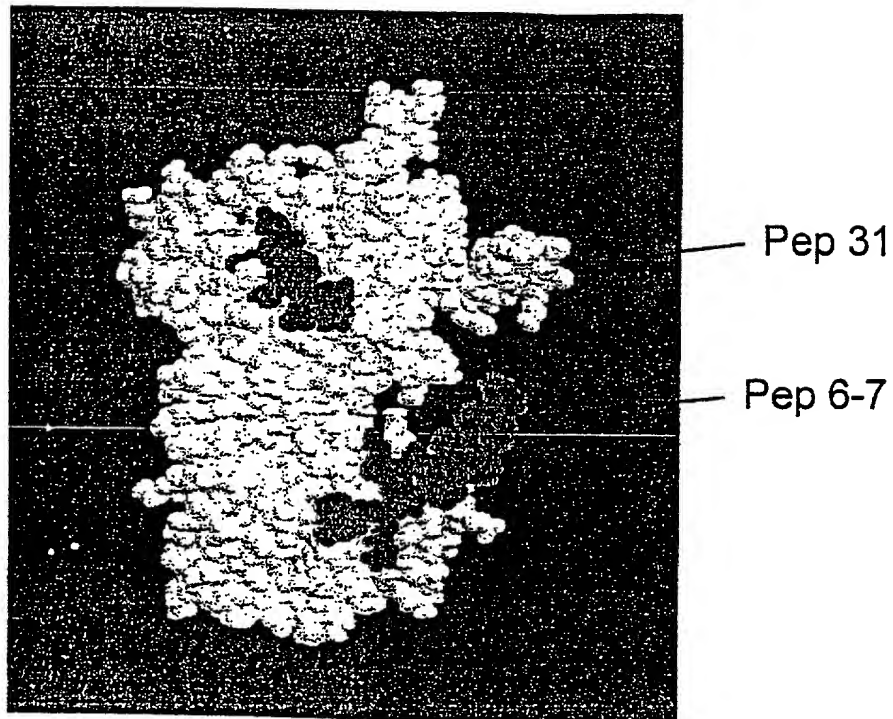


Fig. 3B

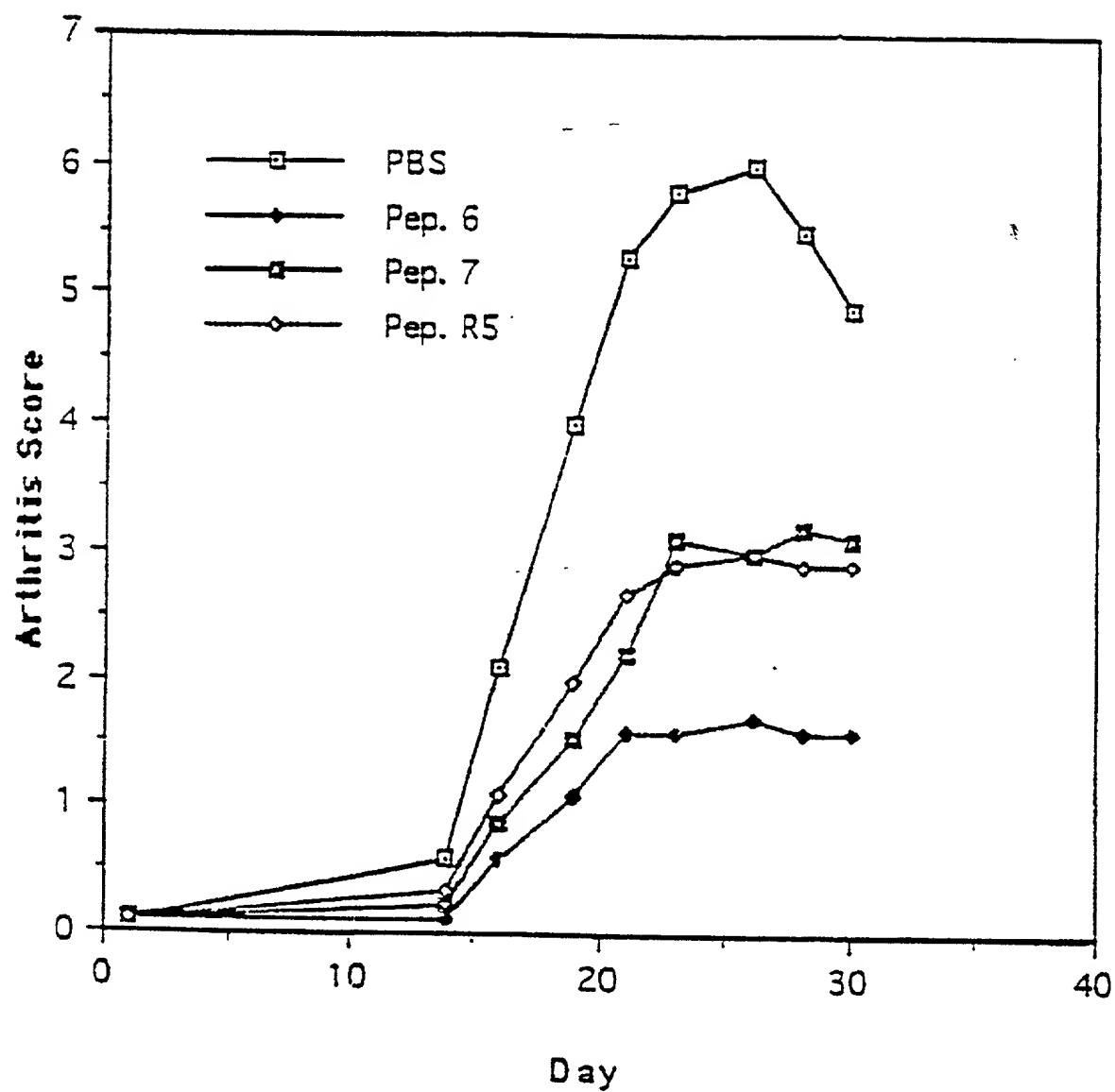


Fig. 4

The "Protective" Motif

MT	HSP Peptide 6- (31-46)	G P K G R N <u>V</u> V L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u>
MT	HSP Peptide 7- (37-52)	<u>V</u> V L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u> T I T N D G
Rat	HSP Peptide 5- (36-55)	T <u>V</u> I I <u>E</u> Q S <u>W</u> <u>G</u> S <u>P</u> K V T K D G V T V
Common Motif		V = E - - W G - P

Fig. 5

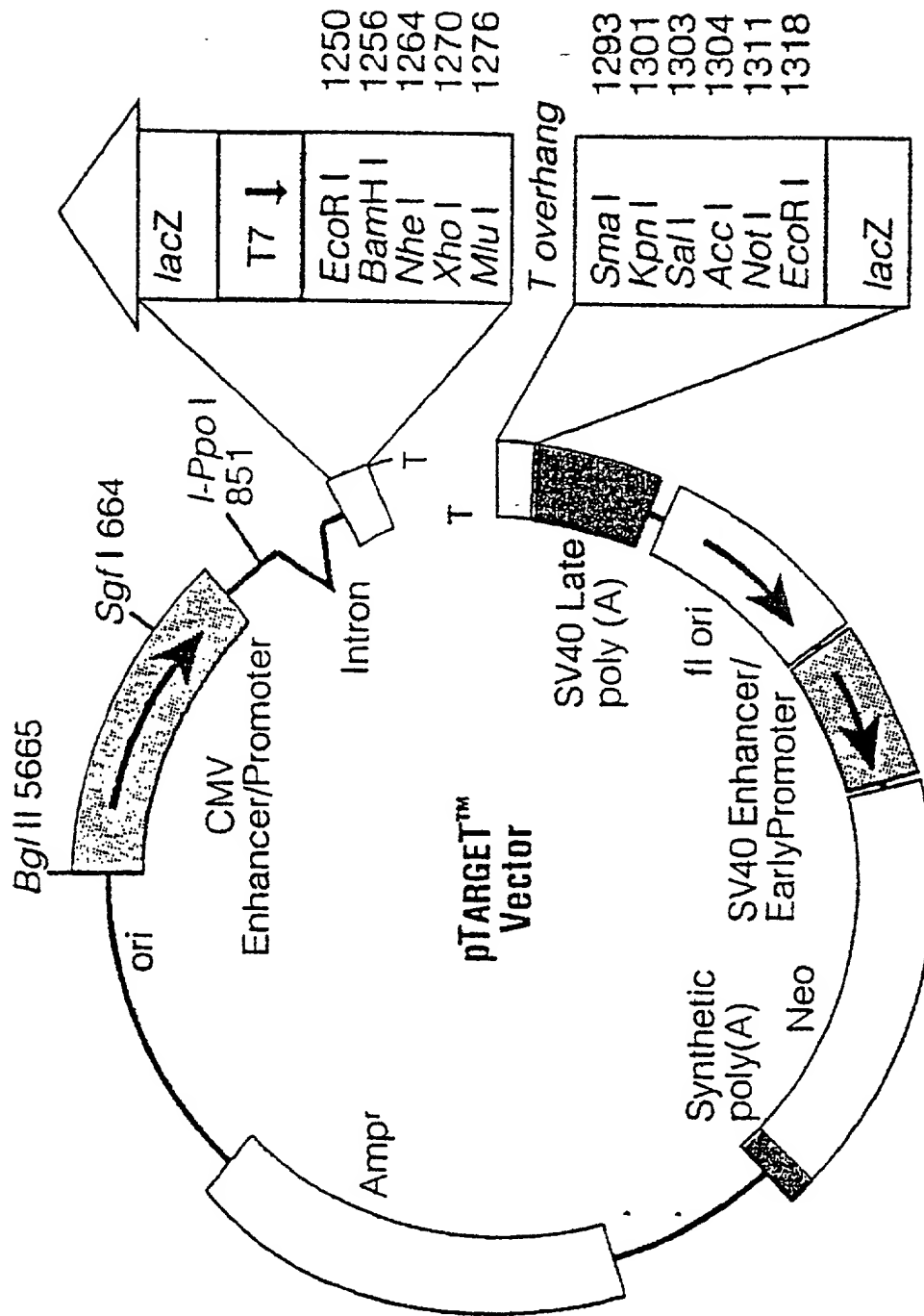


Fig. 6